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1   Data base directions: the next steps   ■

John L. Berg
November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2
Publisher: ACM Press
Full text available: 🗎 pdf(9.95 MB)   Additional Information: full citation, abstract

> What information about data base technology does a manager need to make prudent
> decisions about using this new technology? To provide this information the National
> Bureau of Standards and the Association for Computing Machinery established a workshop
> of approximately 80 experts in five major subject areas. The five subject areas were
> auditing, evolving technology, government regulations, standards, and user experience.
> Each area prepared a report contained in these proceedings. The proceedings p ...
>
> **Keywords**: DBMS, auditing, cost/benefit analysis, data base, data base management,
> government regulation, management objectives, privacy, security, standards, technology
> assessment, user experience

2   Using GATE as an environment for teaching NLP   ■

Kalina Bontcheva, Hamish Cunningham, Valentin Tablan, Diana Maynard, Oana Hamza
July 2002 **Proceedings of the ACL-02 Workshop on Effective tools and methodologies
for teaching natural language processing and computational linguistics -
Volume 1**
Publisher: Association for Computational Linguistics
Full text available: 🗎 pdf(439.53 KB)   Additional Information: full citation, abstract, references

> In this paper we argue that the GATE architecture and visual development environment
> can be used as an effective tool for teaching language engineering and computational
> linguistics. Since GATE comes with a customisable and extendable set of components, it
> allows students to get hands-on experience with building NLP applications. GATE also has
> tools for corpus annotation and performance evaluation, so students can go through the
> entire application development process within its graphical develop ...

3   Japanese language handling in APL environments   ■

Kyosuke Saigusa
July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on
Array processing language APL '98**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(555.47 KB)   Additional Information: full citation, abstract, references, index terms

> While Japan is amongst the first countries to use APL back in the early 1970's and enjoyed at one time as high as 40% of IBM main-frame customers using APL, the lack of Japanese language support of APL in popular computing environments today such as UNIX/AIX, OS/2 and Windows seems to be driving APL out of the scene.This paper tries to bring up this subject more officially than I have done in the past for more public discussion not only for Japan, but also for those countries, where the characte ...

4 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Publisher: ACM Press

Full text available: pdf(213.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

> In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

> **Keywords**: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

5 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(5.14 MB)   Additional Information: full citation, abstract, citings, index terms

> This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

6 Implementing SMART for minicomputers via relational processing With abstract data types

Edward A. Fox

October 1981 **Proceedings of the 1981 ACM SIGSMALL symposium on Small systems and SIGMOD workshop on Small database systems**

Publisher: ACM Press

Full text available: pdf(948.46 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Designed during the 1960's as a research tool for the field of information retrieval, the SMART system has been operating on an IBM 370 since 1974. SMART is now being enhanced, redesigned, and programmed under the UNIX operating system [28] on a DEC VAX 11/780. The techniques used should allow real-time operation on smaller minicomputers in the PDP 11 family. The implementation provides for a combination of database and information retrieval operations which make it applicable to office aut ...

7   A storage and access manager for ill-structured data
Jeffrey Kottemann, Michael Gordon, Jack Stott
August 1991 **Communications of the ACM**, Volume 34 Issue 8
Publisher: ACM Press

Full text available: pdf(2.04 MB)   Additional Information: full citation, abstract, references, index terms, review

Database management systems are powerful tools for processing large volumes of structured, or normalized, data. Much of the data to be stored in computer systems, however, differs from normalized data in both its logical uses and the storage structure required for its effective management. For instance, Van Rijsbergen (1979) distinguishes database retrieval from information retrieval (IR)—the retrieval of references to text—by c ...

8   A unicode based adaptive segmentor
Q. Lu, S. T. Chan, R. F. Xu, T. S. Chiu, B. L. Li, S. W. Yu
July 2003 **Proceedings of the second SIGHAN workshop on Chinese language processing - Volume 17**
Publisher: Association for Computational Linguistics
Full text available: pdf(114.08 KB)   Additional Information: full citation, abstract, references

This paper presents a Unicode based Chinese word segmentor. It can handle Chinese text in Simplified, Traditional, or mixed mode. The system uses the strategy of divide-and-conquer to handle the recognition of personal names, numbers, time and numerical values, etc in the preprocessing stage. The segmentor further uses tagging information to work on disambiguation. Adopting a modular design approach, different functional parts are separately implemented using different modules and each module ta ...

9   Alphabet Soup
Stephen Turnbull
March 1999 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(40.76 KB)   Additional Information: full citation, abstract, references, index terms

The Internationalization of Linux, Part 1: Mr. Turnbull takes a look at the problems faced when different character sets and the need for standardization

10   Determining a computing center environment
Robert F. Rosin
July 1965 **Communications of the ACM**, Volume 8 Issue 7
Publisher: ACM Press

Full text available: pdf(676.32 KB)   Additional Information: full citation, abstract, references, citings, index terms

An investigation is described in which several generally unavailable parameters descriptive of a computing center environment are obtained. The actual data collection and reduction is described, and the results of one month of this collection are tabulated and summarized.

11   Information storage and retrieval: a survey and functional description
Jack Minker
September 1977 **ACM SIGIR Forum**, Volume 12 Issue 2
Publisher: ACM Press
Full text available: pdf(5.14 MB)   Additional Information: full citation, abstract, references

Information Storage and Retrieval (IS&R) encompasses a broad scope of topics ranging from basic techniques for accessing data to sophisticated approaches for the analysis of

natural language text and the deduction of information. Within the field, three general areas of investigation can be distinguished not only by their subject matter but also by the types of individuals presently interested in them:(1) Document retrieval,(2) Generalized data management, and(3) Question-answering.A functional ...

Keywords: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

12 Current issues in software engineering for Natural Language Processing

Jochen L. Leidner

May 2003 **Proceedings of the HLT-NAACL 2003 workshop on Software engineering and architecture of language technology systems - Volume 8 SEALTS '03**

Publisher: Association for Computational Linguistics

Full text available: pdf(226.48 KB)   Additional Information: full citation, abstract, references

In Natural Language Processing (NLP), research results from software engineering and software technology have often been neglected.This paper describes some factors that add complexity to the task of engineering reusable NLP systems (beyond conventional software systems). Current work in the area of design patterns and composition languages is described and claimed relevant for natural language processing. The benefits of NLP componentware and barriers to reuse are outlined, and the dichotomies ...

13 Live documents with contextual, data-driven information components

Anke Weber, Holger M. Kienle, Hausi A. Müller

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Publisher: ACM Press

Full text available: pdf(627.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

We introduce the notion of a live document and we describe our concept of live documents with contextual, data driven information components. The dynamic and interactive features of live documents provide a consistent data source for multimedia presentations targeted to various audiences and multiple platforms. Therefore, they contribute to the solution of key challenges in single sourcing and repurposing. We motivate the use of live documents with sample scenarios from the field of systems docu ...

Keywords: Microsoft Office, live documents, repurposing, reverse engineering, scalable vector graphics, single sourcing, software engineering, systems documentation

14 Applications of data structures: Data structures for computer graphics

Marshall D. Abrams

February 1971 **ACM SIGPLAN Notices**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(2.49 MB)   Additional Information: full citation, abstract, references

This paper introduces data structures as applied to computer graphics. Design criteria for computer graphics data structures are discussed, followed by a comparison of general-purpose and tailored graphic data structures. A general graphic data structure is introduced as an example of a structure meeting the preceding criteria. The L^6 language is then examined as a tool for implementing the above data structure, and is compared to a few other language systems.

15 Research in music and artificial intelligence

Curtis Roads
June 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 2

Publisher: ACM Press

Full text available: pdf(2.72 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Although the boundaries of artificial intelligence (AI) remain elusive, computers can now perform musical tasks that were formerly associated exclusively with naturally intelligent musicians. After a historical note, this paper sermonizes on the need for AI techniques in four areas of musical research: composition, performance, music theory, and digital sound processing. The next part surveys recent work involving AI and music. The discussion concentrates on applications in the four areas o ...

16 Security Mechanisms in High-Level Network Protocols

Victor L. Voydock, Stephen T. Kent
June 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: pdf(3.23 MB)   Additional Information: full citation, references, citings

17 The Integrated Dictionary/Directory System

Frank W. Allen, Mary E. S. Loomis, Michael V. Mannino
June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(2.71 MB)   Additional Information: full citation, references, citings, index terms

18 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach
November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: pdf(947.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

19 A comparison of message passing and shared memory architectures for data parallel programs

A. C. Klaiber, H. M. Levy
April 1994 **ACM SIGARCH Computer Architecture News , Proceedings of the 21ST annual international symposium on Computer architecture ISCA '94**, Volume 22 Issue 2

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(1.26 MB)   Additional Information: full citation, abstract, references, citings, index

Shared memory and message passing are two opposing communication models for parallel multicomputer architectures. Comparing such architectures has been difficult, because applications must be hand-crafted for each architecture, often resulting in radically different sources for comparison. While it is clear that shared memory machines are currently easier to program, in the future, programs will be written in high-level languages and compiled to the specific parallel target, thus eliminating thi ...

20 A case study in the use of data base management

A. M. Koss, J. M. Noonan
October 1976 **Proceedings of the annual conference**
Publisher: ACM Press
Full text available: .pdf(397.30 KB)   Additional Information: full citation, abstract, references, index terms

Data base management systems have been presented as the means for improving information accessibility and consolidating data processing. In a non-dedicated computer environment the resource allocation that such systems require must be considered. Based on more than four years experience with data base management systems, this paper analyzes the efficiencies and computer resource usage of a data base management system with random access in comparison with the efficiencies and computer resour ...

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Factors affecting the adoption and diffusion of XML and ... - Chen - Cited by 16

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